SAN JOAQUIN RIVER RESTORATION PROGRAM

Water Management Technical Feedback Meeting

October 15, 2010
Fresno, CA

Agenda Overview

- Comments on Meeting Notes
- Water Supply Briefing / Interim Flows
- Restoration Flow Guidelines
- Recapture/Recirculation
- MC/FKC Capacity Restoration / Reverse Flow Feasibility Studies
- Next Meeting Date

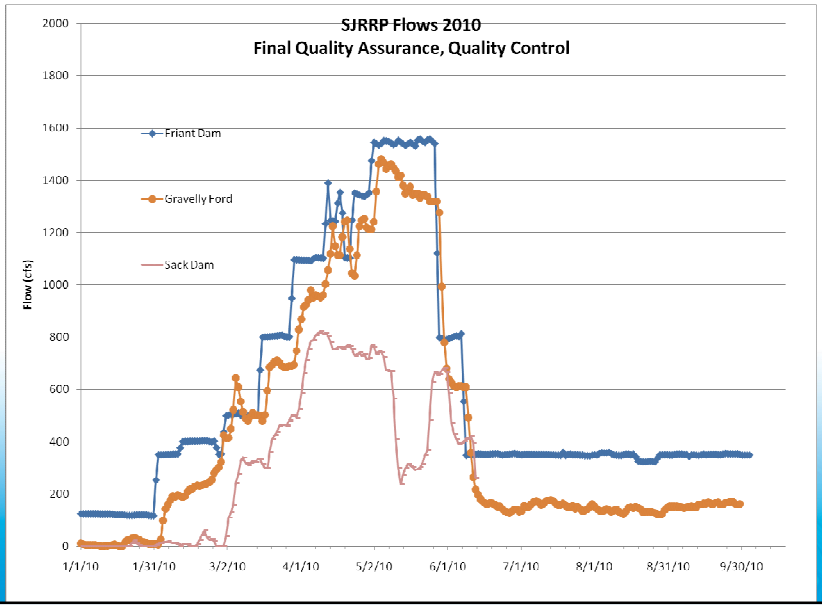
Comments on Meeting Notes

Water Supply Briefing / Interim Flows

Water Supply Briefing

- Water Supply update: WY 2,029TAF, 116%
- WY 2010 Account To Date
  - RWA Credits = 82,445 af
  - $10 Water Deliveries = 72,741 af
  - Recaptured Interim Flows = 42,551af
  - Additional Class 2 deliveries made available through Recirculation = 42,174 af
  - Fall 2009 Mendota Pool Operations

Interim Flow Update



2011 Water Right Order

- Explicit authorization for transfers/exchanges in San Luis
- Real time flow monitoring requirement
- Seepage Monitoring Plan
- SJRRP website will be used to issue notifications
- Coordination requirement for flood control
- O&M agreement with CCID, SLCC & Levee District
- Explicit inclusion of flexible flow periods
- Updated Water Quality Monitoring Plan
- Temperature monitoring in Millerton

Restoration Flow Guidelines

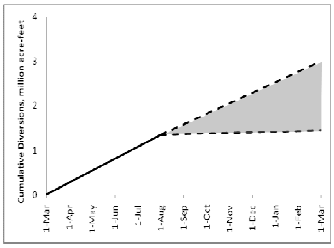
Restoration Flow Guidelines (RFG): Recent and Planned Coordination

- Oct 29th Circulate DRAFT 3 RFG among Settling Parties for continued review
- Nov (TBD) Meeting to review RFG

- Significant changes to RFG:
  - Document restructured to follow Paragraph 13(j)
  - Language revisions for clarity, consistency
  - Revised explanation for annual reporting and planning processes
  - Reclamation Proposal for Recovered Water Account
  - Working on development of compliance rules

Reclamation Proposal for Recovered Water Account (RWA)

- Common understanding of model inputs and outputs
- Single get-away curve:
  - 1.35 MAF by July 31st
  - Inflow after July 31st
- RWA calculations are:
  - RWA = Pre minus Post water supply
  - Supply = Inflow minus spill
  - Real-time adjustments for winter spill



Recapture / Recirculation

Preliminary 2011 Recapture Plan

- Recapture = San Mateo - 5% - Sack Dam
- Additional adjustment for estimated vs. actual Sack Dam flows
- Working with FWA, SLDMWA, SJRECWA

Preliminary 2011 Recirculation Plan

- Currently recapturing at Sack Dam
  - Fall 2010 Interim Flows = over 5,000 af to date
  - Fall 2009 Interim Flows = 850 af
- Working with SCCAO to extend existing scenarios
- Soliciting scenarios for 2011

Friant-Kern & Madera Canals Capacity Restoration Project

Project Update

- "Full-Fix" Appraisal Estimate ~ $67 million
- Reclamation performed screening analysis
- Screening conducted to inform selection of proponent preferred alternative

Screening Analysis

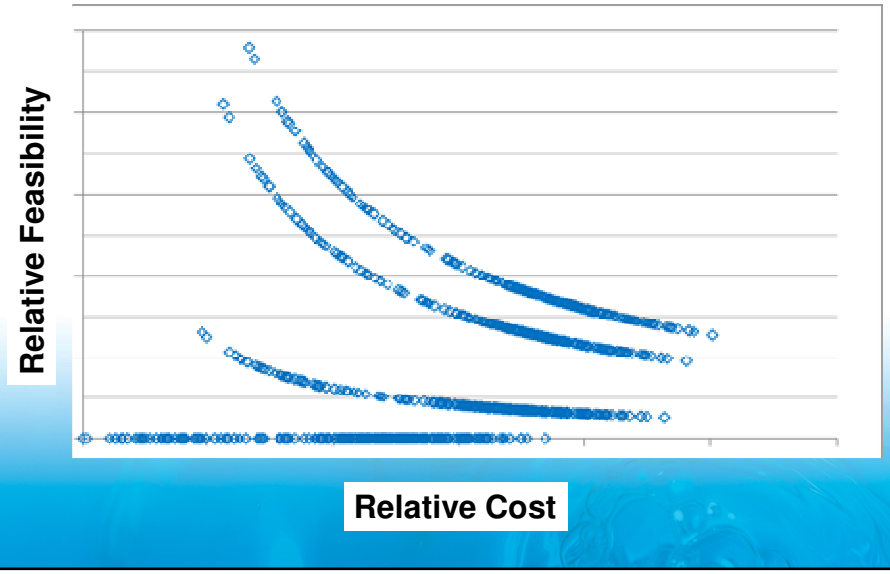
- Purpose
  - Determine if regionally feasible fixes exist
  - Determine general priority of fixes

Screening Approach

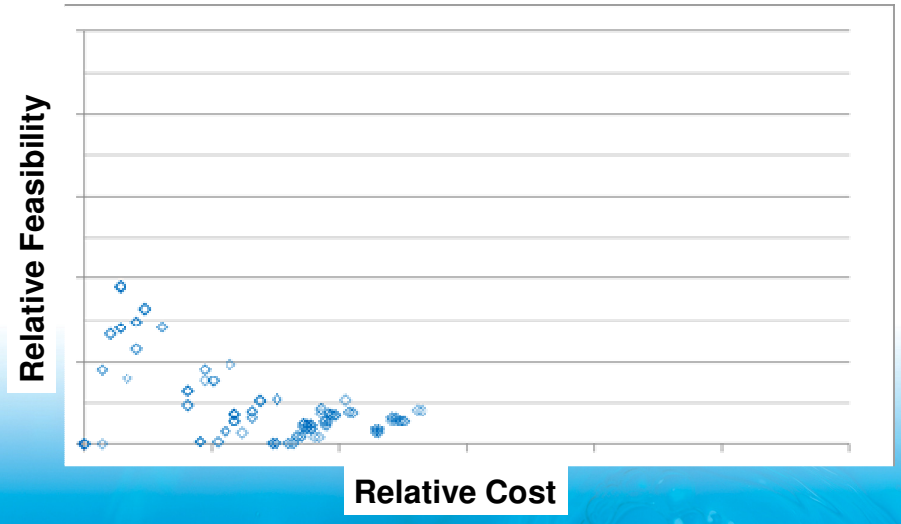
- 6 FKC reaches; 4 MC reaches
- FKC and MC screened independently
- 3 levels of repair per reach
- Based on Pre-Appraisal Quantities
- Operations model for water supply benefit
- Costs per linear foot

*Total of ~ 9,000 combinations

Preliminary Results



Preliminary Results



Preliminary Results

- Appear to be regionally feasible fixes.
- Lining raises cheaper than bank raises, similar benefit.
- Need Authorities expertise for sequencing fixes.

- FKC:
  - 1st Priority – Restore Kings River to Kaweah River Check
- MC:
  - 1st Priority – Restore milepost 6 to 19

Next Steps

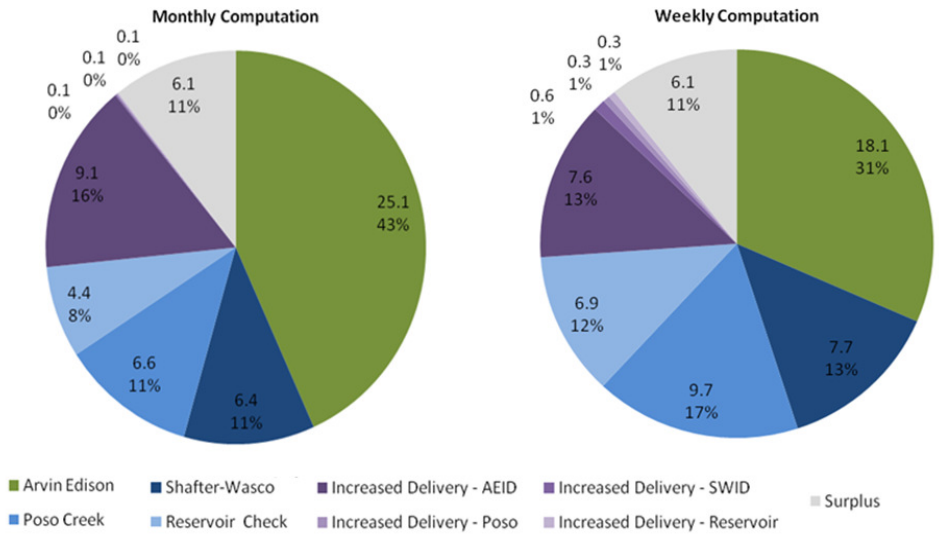
- Identify "Proponent Preferred Alternative"
- Feasibility Report (Designs, Costs, Benefits)
- Environmental Assessment

Friant-Kern Canal Reverse Flow Pump-Back Facilities Project

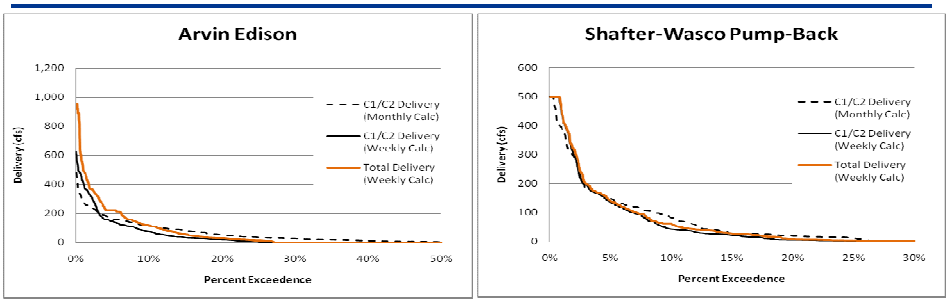
Project Update

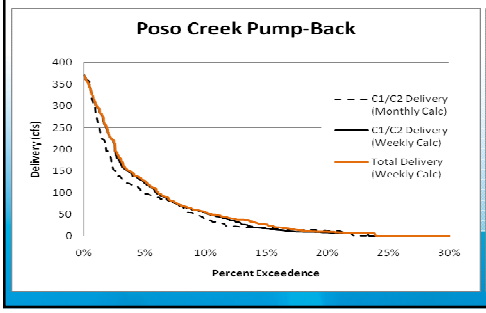
- Evaluated weekly time-step
- Reformulating Project

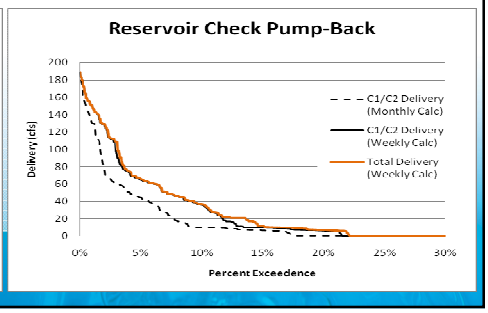
Weekly Time-Step Results



Weekly Time-Step Results







Conclusions

95 % Exceedance	Monthly Time-Step (cfs)	Weekly Time-Step (cfs)
Shafter	180	162
Poso	100	138
Woollomes	50	64

Conclusions

- Reduces pump-back deliveries to Arvin-Edison
- Increases amount pump-backed through Wasco and Woollomes
- No significant change in pump size.

Project Reformulation Approach

- Work with TSC and Authorities to reformulate project.
- Constraints/Guiding Principles
  - $17 million ceiling
  - Sizing based on projected use
  - Preference to Shafter and Poso
  - Poso and Shafter should be similar size
  - Consider economies of scale
  - Design should allow for future expansion
  - Regionally feasible cost/benefit

Next Steps

- Identify "Proponent Preferred Alternative"
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Public Comment / Next Meeting

Next Meeting

- Date & Time:
  - January 2011
  - Resume monthly meetings in January
  - Agenda Topics